

Langley Technical Section

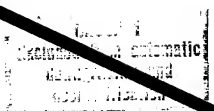
General

The Main Signal Center renovation program for the pending MAX installation is on schedule. We have targeted the completion date to 1 September 1967.

I. Wire Unit

1. Main Signal Center

- a. The service schedule for the month is current.
- b. Removed all of the Remote Indicator Blown Fuse Alarms (BFA), Full Reel Alarms (FRA), and Out of Tape Alarms (OTA) modifications from the eight Monitor Reperforator Cabinets to the Main Console and returned the cabinet wiring according to the standard teletype drawings.
- c. Removed all of the alarms from the Receive Reperforator Cabinets to the Main Console and returned the cabinet wiring according to the standard teletype drawings.
- d. All of the alarm cabling from the cabinets to the "Black" frame room were removed from the floor cells.
- e. The teletype equipment from the Signal Center Telecon Room was removed.
- f. Relocated the Telephone and Western Union equipment in the Signal Center according to the new Signal Center renovation plans.
- g. The W.T.F. service position was relocated in accordance with the new Signal Center Renovation plans.
- h. Checked out a two-station intercom for FMSAC. We are now waiting for GSA to provide AC service before we can complete the project.
- i. Troubles reported and corrected for the month are as follows:



I. Wire Unit (Continued)

(1) Langley Signal Center

a) Cryptographic Equipment	-	77
b) Teletype and Miscellaneous Equipment	-	333
TOTAL:		410

(2) Outside Area Communications Centers

a) Cryptographic Equipment	-	10
b) Teletype and Miscellaneous Equipment	-	26
TOTAL:		36

2. T.D.Y.

- 25X1A6b a. Two emergency TDY's were carried out for OC-AD to [REDACTED] 25X1A6a
[REDACTED] for the repair of HW-19A and KW-7 equipment.
- 25X1A6a b. TDY assistance was given for the Signal Center/[REDACTED] 25X1A8a
[REDACTED] Activities Staff for emergency repairs of the OS/KW-7 net in
[REDACTED]

II. Electronic Unit

1. KY-3 Secure Voice Program

a. Installations

- 25X1A6a (1) Installed a KY-3 with one extension at [REDACTED] 25X1A
[REDACTED], to the Headquarters automatic switch via
microwave - extension 3093.
- 25X1A6a (2) Installed a KY-3 with one extension at [REDACTED] 25X1A6a
Vault, [REDACTED], to the automatic switch via microwave -
extension 3094.
- (3) Installed a KY-3 with two extensions in Room 1B47, Main
Signal Center, Headquarters - extension 3095.

b. Relocations

- (1) Relocated a KY-3 from Room 5C1815 to Room 5C1825, Head-
quarters.

II. Electronic Unit (Continued)

- (2) Relocated a KY-3 from Room 2D901A to Room 5A910, Pentagon.

c. Modifications

- (1) Three NSA approved modifications (Number #5) were placed into the system for test purposes and the tests proved very successful. The modification corrects unwanted tones and dialing difficulties at distances exceeding 75 feet. Ninety of the modification #5 were placed on order by OC-S.
- (2) The service schedule is up to date for this month.

d. Trouble Status

- | | | | |
|-----|-------------------|---|----------------|
| (1) | Set Troubles | - | 54 each |
| (2) | Distant End | - | 3 each |
| (3) | Operational Error | - | 10 each |
| (4) | Telephone Company | - | <u>12 each</u> |
| | | | TOTAL: 79 each |

2. CIA/CIFAX - 7th Floor

- a. The automatic synchronizing unit on the circuit between [REDACTED] has been removed. The circuit was corrected to manual prep. and start. This was requested by Signal Center/OC.

25X1A

b. Troubles

Six troubles were reported and corrected this month.

3. Microwave System

- a. Three troubles were reported on the system and all have been cleared.
- b. The [REDACTED] located in the Headquarters Microwave Room have been adjusted for minimum distortion.

25X1A5a1

4. HY-2/KG-13 Headquarters [REDACTED] Secure Voice Circuit

25X1A6a

The circuit has been trouble-free this month.

II. Electronic Unit (Continued)

5. DCI/SO Very-High-Frequency Net

Two problems were reported and corrected.

6. KY-5 Secure Voice

- a. The Headquarters [REDACTED] KY-5 units are no longer in service because of the KY-3 replacement units. Arrangements are being made to P.T.I. the Kellogg-Switch with the KY-5.
- b. Five troubles were reported and corrected this past month.

7. Revamping of Electronic Shop

The Electronic Unit Shop area was revamped for maximum work space area. The move will require wiring of another KY-3 test position and relocation of AC outlets.

OVERTIME

A total of thirty hours of overtime was worked during this reporting period.

A total of one hundred sixty-eight hours of Holiday time was worked this reporting period.

SECRETTSB SUPPLY SECTION

1. As of 25 November 1966 a total of \$84,005.78 has been expended for FY-67.
2. Field Requests -

<u>Requests</u>	<u>Line Items</u>	<u>L/I Initial Shipment</u>
92	1,333	1,282

This is a marked increase over last months field requests due to the quarterly requirements submitted [REDACTED] They requested a total of 720 line items on 36 requisitions.

25X1A6a

3. The cross reference (TB 150-1) for KW-7 Parts has been completed and distribution has been made. An additional forty copies have been ordered to take care of our friends in the local area.

SECRET**GROUP 1**
Excluded from automatic
downgrading and
declassification

SECRET

25X1A6a

TECHNICAL SECTIONOVERTIME

1. Staff Employees - 24 Hours. [REDACTED]
2. Contract Employees - 0 Hours.
3. Staff Employees donated 0 Hours.

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T&I UNIT

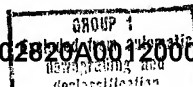
25X1A

1. [REDACTED] Depot has established a check on vouchers missing or not processed. T&I is actively participating in this program.
2. Items accepted as a substitute will be stamped with a SAME/EQUAL marking when possible. All vouchers will be stamped SAME/EQUAL.
3. Some items processed on cargo and receiving vouchers are as follows:

	<u>Accepted</u>	<u>Rejected</u>
Ninety-seven AC-3 Antenna Couplers	95	2
Two Hughs Aircraft MAN/PACK Radio Sets	2	0
Sixty Bayside Model "P" Transceivers	34	26
Ten Digitech Test Generators	0	10
Forty Bayside Model "PW" Transceivers	20	20
Thirty-five Frederick Converters	35	0
Ten Oscilloscopes, Teletronix RM 561A	10	0
One hundred ninety-three HG-48A Generators	193	0
Twenty-nine KWM-2 Transceivers	29	0
Twenty-five KEL ASR-100's, Transceivers	22	3
Twenty-five RR-48E Receivers	25	0
Fifty-one Northern Keyers	50	1
Twenty-three Northern Converters	23	0
Thirty RT-49 Transmitters	30	0
Ten HFAS-3 Antenna Couplers	10	0
Forty-two PAL 350 Linear Amplifiers	26	16

IN-PLANT INSPECTIONS

1. Two in-plant inspections [REDACTED] saw twenty-six PAL 350's accepted and sixteen rejected. 25X1A5a1
2. Two in-plant inspections [REDACTED] saw ten HFAS-3 Antenna Couplers and one SIS-1 accepted. 25X1A5a1

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REHAB UNIT

1. Sixty items of electronic equipment were processed on PTI's, twenty-one items on job orders, twelve items on repair requests, and four items on receiving vouchers.
2. Six items of TTY equipment were processed on PTI's, one item on a job order, thirty items on receiving vouchers, and sixteen items on repair requests. Forty-five of the items were major pieces of equipment.
3. Thirteen T-3000 Recorders were modified per Memo #SPS-M-66-1034. This enables use of a voice operated relay with the recorder.
4. All ASR units in stock (21) were modified per ESB 66-073.

ENGINEERING UNIT

1. Work on an FTS training program for OJT's has been completed in rough draft form. The program will not be initiated due to present work load.
2. All necessary items of test equipment for testing the [REDACTED] 25X1A5a1
TE-216D are available either at FTS or WCB Lab.
3. [REDACTED] plants were inspected in respect to Spectrum Analyzers. 25X1A5a1
A final decision has not been made yet, but indications are that [REDACTED] will get the nod.
4. ASR-100 and R-390 Test Procedures were released for publication.
5. R&D/EP was notified of high rejection rates for the [REDACTED] 25X1A5a1
PW Transceivers. An in-plant inspection for future units is suggested.

CALIBRATION UNIT

1. Eleven counters were checked and calibrated.
2. Eight pieces of equipment were processed and several new items checked. We also used our new H-P small parts contract, but results (in respect to time) are not yet known.

MECHANICAL UNIT

Nothing to report.

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POWER UNIT

1. Operationally tested and evaluated one 60 KW power unit of PTI.
2. Drained and tagged all radiator cooling systems.
3. Custom Applied Power Co. and two No-Break systems were inspected.

25X1A6a

1. Workload remains high and it has necessitated some overtime. A TDY trip to alleviate any backlog may be necessary this coming month.
2. Two hundred receiving requisitions consisting of 364 line items were processed. In addition, two cargo requisitions consisting of 2 line items were processed.

CRYSTAL LAB

1. All crystals are being checked for spurs with a temporary test set-up. This will be continued for thirty days and recommendations made for a permanent installation.
2. Messrs. [REDACTED] ICS/PD/OL, visited [REDACTED] The plant is well equipped and from all appearances well managed.
3. Messrs. [REDACTED] visited [REDACTED] 25X1A5a1 [REDACTED]. The plant is modestly equipped and unorganized for production, however their technical ability is good.

25X1A9a

25X1A5a1

25X1A9a

25X1A5a1

<u>Totals</u>	<u>Requisitions</u>	<u>Crystals</u>
Orders Received	225	13,172
Orders Completed	165	8,406
Back Log	12	1,134
Due Out	48	3,632

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25X1A9a

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